

NEUSE RIVER BASIN

02085000 ENO RIVER AT HILLSBOROUGH, NC

LOCATION.--Lat 36°04'18", long 79°05'49", Orange County, Hydrologic Unit 03020201, on left bank 900 ft downstream of bridge on State Highway 86 at Hillsborough, and 2 mi downstream of Sevenmile Creek.

DRAINAGE AREA.--66.0 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1927 to September 1971, October 1985 to current year.

REVISED RECORD.--WDR NC-96-1: 1945 (M).

GAGE.--Water-stage recorder. Datum of gage is 487.44 ft above NGVD of 1929. Telephone and satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Diversions upstream from station of 1.2 ft³/s by Orange-Alamance Water System, Inc. and 1.7 ft³/s by town of Hillsborough for municipal supply, part of which is returned downstream of station as treated effluent. Maximum gage height for period of record, 21.13 ft, from high-water mark in gage shelter. No flow for part of Sept. 13, 2002.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	1.7	2.3	4.5	14	7.4	51	3.5	5.5	2.3	2.4	121
2	4.4	1.5	2.1	4.4	12	16	34	3.2	7.1	1.3	1.6	27
3	3.9	1.3	2.3	6.4	11	68	24	3.5	5.0	1.1	1.8	6.7
4	3.9	1.2	2.0	6.7	11	58	20	5.7	4.5	1.1	2.6	2.8
5	5.0	1.2	2.5	5.8	9.4	26	15	7.8	4.0	1.1	2.2	1.4
6	4.2	1.1	2.4	15	10	18	13	5.6	3.4	1.2	1.4	0.91
7	4.5	1.2	2.2	29	68	15	13	5.1	4.3	0.94	1.5	0.78
8	3.8	1.0	2.4	17	79	13	11	4.0	5.3	0.80	1.9	0.55
9	4.3	1.1	2.6	12	39	14	11	4.3	4.7	0.38	2.6	0.40
10	3.9	1.5	5.0	10	27	18	14	3.2	4.0	1.0	3.3	0.28
11	4.2	1.4	33	11	23	13	14	3.0	3.5	4.8	2.7	0.12
12	4.2	1.6	11	11	18	13	12	2.9	3.8	4.7	1.9	0.04
13	4.2	1.6	6.8	10	16	15	12	3.8	4.8	4.2	0.67	0.03
14	11	1.8	5.2	8.7	14	15	12	5.0	5.6	4.2	0.18	0.40
15	9.0	2.0	5.5	8.5	12	13	10	3.7	5.2	3.9	0.28	1.7
16	4.4	1.9	4.7	6.8	12	12	9.8	3.2	4.9	3.8	0.27	3.4
17	4.0	1.6	4.8	5.8	11	20	8.1	2.8	4.6	3.4	0.79	1.6
18	3.5	1.1	7.3	4.6	9.8	37	7.4	4.3	4.2	2.1	3.6	0.71
19	3.3	1.5	6.1	73	9.4	29	11	5.5	3.8	2.3	3.5	0.45
20	3.4	1.3	5.7	224	9.5	22	13	4.6	3.1	2.5	3.3	0.83
21	2.5	1.7	4.7	51	9.4	27	9.5	4.5	3.2	3.0	2.1	2.0
22	2.2	1.4	4.7	36	9.1	31	8.3	4.3	2.4	2.8	1.7	2.0
23	2.6	1.3	5.0	117	8.6	20	6.6	4.4	2.2	4.9	1.5	2.1
24	2.3	2.3	7.1	122	8.6	16	5.4	4.4	2.2	15	1.4	1.3
25	2.6	2.6	6.2	77	8.0	15	5.5	4.3	1.5	6.9	1.2	0.46
26	2.4	2.9	6.3	50	8.0	15	5.0	4.3	1.5	6.6	1.4	0.38
27	1.8	2.1	5.7	30	7.9	35	4.2	4.2	1.6	4.9	2.1	0.54
28	2.0	2.3	5.5	23	7.3	31	4.4	3.1	2.6	3.7	1.0	1.8
29	1.9	2.3	5.5	18	---	23	4.7	3.3	3.0	3.7	0.90	1.7
30	2.1	2.2	5.2	16	---	19	3.8	3.0	2.3	3.5	2.0	1.2
31	2.2	---	4.9	14	---	21	---	4.8	---	2.4	22	---
TOTAL	117.7	49.7	176.7	1028.2	482.0	695.4	372.7	129.3	113.8	104.52	75.79	184.58
MEAN	3.797	1.657	5.700	33.17	17.21	22.43	12.42	4.171	3.793	3.372	2.445	6.153
MAX	11	2.9	33	224	79	68	51	7.8	7.1	15	22	121
MIN	1.8	1.0	2.0	4.4	7.3	7.4	3.8	2.8	1.5	0.38	0.18	0.03
CFSM	0.06	0.03	0.09	0.50	0.26	0.34	0.19	0.06	0.06	0.05	0.04	0.09
IN.	0.07	0.03	0.10	0.58	0.27	0.39	0.21	0.07	0.06	0.06	0.04	0.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2002,® BY WATER YEAR (WY)

MEAN	28.26	42.97	54.03	90.53	110.8	118.2	92.95	49.72	37.40	36.81	31.64	36.91
MAX	181	213	166	326	311	354	264	165	210	359	256	342
(WY)	1930	1986	1946	1936	1998	1998	1936	1931	1995	1938	1939	1945
MIN	0.63	0.82	3.64	5.16	17.2	22.4	12.4	4.17	1.75	1.28	0.85	0.28
(WY)	1987	1942	1942	1942	2002	2002	2002	2002	1986	1986	1987	1954

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1928 - 2002®

ANNUAL TOTAL	11335.7	31.06	3530.39	9.672	60.57
HIGHEST ANNUAL MEAN					108
LOWEST ANNUAL MEAN					9.67
HIGHEST DAILY MEAN	1190	Mar 30	224	Jan 20	4600
LOWEST DAILY MEAN	1.0	Nov 8	0.03	Sep 13	0.02
ANNUAL SEVEN-DAY MINIMUM	1.2	Nov 3	0.26	Sep 8	0.10
MAXIMUM PEAK FLOW			454	Jan 20	10800
MAXIMUM PEAK STAGE			4.67	Jan 20	21.13*
INSTANTANEOUS LOW FLOW			0.00*	Sep 13	0.00*
ANNUAL RUNOFF (CFSM)	0.47		0.15		0.92
ANNUAL RUNOFF (INCHES)	6.39		1.99		12.47
10 PERCENT EXCEEDS	45		20		114
50 PERCENT EXCEEDS	9.7		4.3		25
90 PERCENT EXCEEDS	2.3		1.2		4.0

® See PERIOD OF RECORD.

* See REMARKS.

02085000 ENO RIVER AT HILLSBOROUGH, NC--Continued

